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YASUDA HIROSHI(54) IN-FRAME PREDICTIVE VECTOR
QUANTIZATION AND CODING SYSTEM

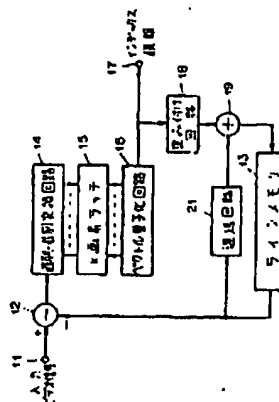
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(57) Abstract:

PURPOSE: To reduce memory capacity, and to reduce the scale of a device and improve coding efficiency by performing the vector quantization of a predictive error signal in a frame.

CONSTITUTION: An input video signal inputted from an input terminal 11 is subtracted by a subtracting circuit 12 while a picture element value which is one line before is used as a predictive value, and every (k) picture elements are arranged in parallel. Then, a predictive error signal of (k) picture elements of a series-parallel converting circuit 14 is read in a (k)-picture-element latch 15 for every (k) picture elements corresponding to the number of dimensions of vector quantization and a predictive error signal of eight picture elements which is the output of the (k)-picture-element latch 15 is quantized by a vector quantizing circuit 16 into a vector. Thus, an in-frame predicted error signal is vector-quantized by plural picture elements at a time to perform high- efficiency



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